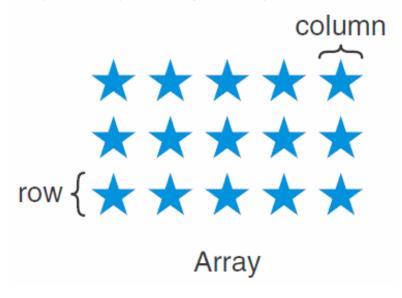
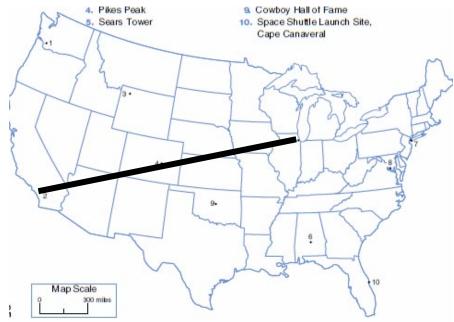
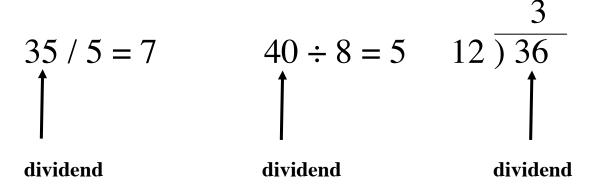
Array – an arrangement of objects in a regular pattern, usually rows and columns; an array is usually a rectangular array



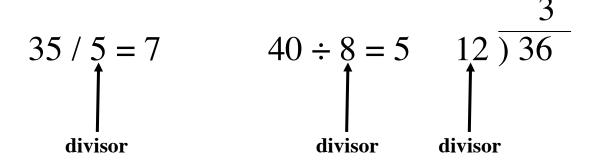
"As the crow flies" — a straight distance between two objects on a map, not considering land features that might be in the way of traveling over land such as lakes or mountains or forests; it's the straight path between two objects in the air



Dividend – The number in division that is being divided.



Divisor — The number that divides another number in division.

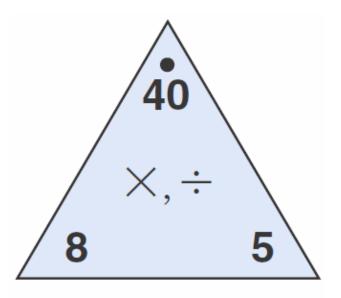


Equally Likely Outcomes — outcomes of a chance experiment or situation that have the same probability of happening



It's 50-50, heads or tails, every time!

Fact Power — the ability to automatically recall basic arithmetic facts



Factor — each of the two or more numbers in a product; as a verb, it also means to represent a number as a product of factors

factors product
$$8*6=48$$

Fair Game — a game in which every player has the same chance of winning



Heads — the side of the coin that has the head of a president

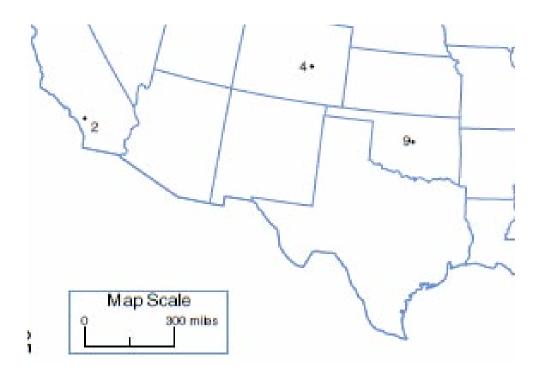








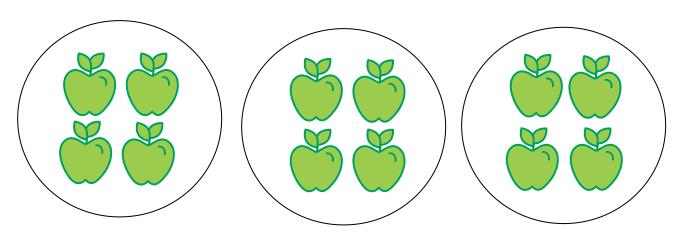
 ${f Map\ Scale}$ – The ratio of distance on a map, globe, or drawing to an actual inch.



Multiples – the product of an integer with another integer

Multiples of 7 = 0, 7, 14, 21, 28, etc Multiples of 5 = 0, 5, 10, 15, 20, etc

Multiplication — a method of finding the total number of objects in several equal groups



3 groups of 4 apples = 12 apples

Multiplication/Division Diagram — a diagram used to model situations in which a total number is made up of equal-size groups

rows	chairs per row	chairs in all			
15	25	?			

Multiplication/Division Fact Table

Multiplication/Division Facts Table											
×,÷	1	2	3	4	5	6	7	8	9	10	
1	1	2	3	4	5	6	7	8	9	10	
2	2	4	6	8	10	12	14	16	18	20	
3	3	6	9	12	15	18	21	24	27	30	
4	4	8	12	16	20	24	28	32	36	40	
5	5	10	15	20	25	30	35	40	45	50	
6	6	12	18	24	30	36	42	48	54	60	
7	7	14	21	28	35	42	49	56	63	70	
8	8	16	24	32	40	48	56	64	72	80	
9	9	18	27	36	45	54	63	72	81	90	
10	10	20	30	40	50	60	70	80	90	100	

Product – the result of multiplying two numbers, called factors

factors product
$$8*6=48$$

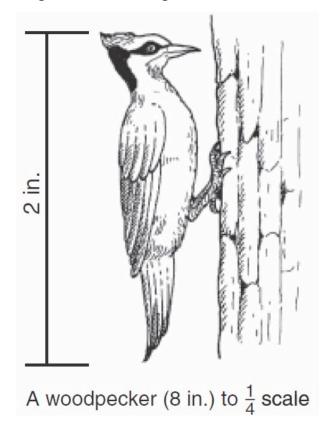
Quotient – the result of dividing one number by another number. The "answer" for division

quotient quotient quotient
$$\frac{3}{3}$$
 $35 / 5 = 7$ $40 \div 8 = 5$ $12)36$

Remainder – the amount left over when one number is divided by another number.

remainder remainder remainder
$$35/4 = 8 R3$$
 $40 \div 9 = 6 R4$ $10)36$

Scale Factor — the ratio of lengths on an image and corresponding lengths on a preimage in a size change



 $\begin{tabular}{ll} Square & Numbers & - & figurative numbers that are the product of a counting number and itself \\ \end{tabular}$





$$3 * 3 = 9$$

Tails — the non-head side of a coin









Turn-around Shortcut — ways to use facts you know to learn other facts

Shortcuts

Here are some ways to use facts you know to learn new facts. They are called shortcuts.

Plus 0: If 0 is added to a number, the number is not changed.

Examples 6 + 0 = 6 0 + 812 = 812

Minus 0: If 0 is subtracted from a number, the number is not changed.

Examples 6 - 0 = 6 1,999 - 0 = 1,999

Times 0: If a number is multiplied by 0, the answer is 0. **Examples** $6 \times 0 = 0$ $0 \times 46 = 0$ $1,999 \times 0 = 0$

Times 1: If a number is multiplied by 1, the number is not changed.

Examples $1 \times 6 = 6$ $46 \times 1 = 46$ $1 \times 812 = 812$

Times 5: To multiply by 5, think "nickels."

Example $7 \times 5 = ?$ 7 nickels is 35 ¢. So $7 \times 5 = 35$.